Digital Video Recorder (DVR)

Elbit Systems' DVR is a state-of-the-art airborne synchronized video, audio, and data recorder in a solid-state memory cartridge. The compact, lightweight unit enables simultaneous recording of 4 video, 2 audio, and data channels on a single cartridge. The DVR is an ideal solution for high capacity recording of multiple video, audio and data sources on fixed and rotary wing aircraft and UAVs.

Based on Commercial Off-the-Shelf (COTS) components, the DVR complies with stringent airborne data recording and mission debriefing requirements. It can operate stand-alone or integrate with existing systems as part of cockpit upgrade programs.

Elbit SYSTEMS

Digital Video Recorder (DVR)

Key Features

- Simultaneous recording of 4 video, 2 audio, and data channels on single cartridge
- AACMI data recording enables retrieving complete flight information
- Up to 10 hours of video and audio recording
- Inflight control capabilities - record, pause, play and play-back
- Modular design and configuration
- Additional PCMCIA cartridge for mission data loading to the avionic suite and/or flight data retrieval for maintenance tracing
- USB II Interface for the removable data cartridge

Major Advantages

- **P4P - Pilots' experience for pilots' needs -** based on combat pilots experience, Elbit Systems' DVR enables retrieving all mission data collection in a single unit:
- Video pictures of HUD, MFCDs, and HMD
  - Internal and external audio
  - Flight AACMI data and events
  - Technical and maintenance logs
- No moving parts assuring high reliability in all conditions - exceptional MTBF
- Easy to upgrade memory size / record time by replacing COTS PCMCIA cards
- Open architecture design facilitates addition of new features and capabilities
- Modular system, can be adapted to any aircraft with no major aircraft modifications necessary
- DVR can operate stand-alone or integrate with existing systems as part of cockpit upgrade programs

Technical Information

Video

- Records up to 4 video inputs
- Records in standard MPEG-2 format
- Supports RS-170, NTSC, PAL, S-video, and RGB inputs
- Up to 10 hours of digital video recording
- time
- Single playback channel during flight
- Compression quality control function
  Compression bit-rate (per channel) - 2Mbit/sec to 12Mbit/sec
- **Audio**
  Records up to 2 audio channels, synchronized
- with the video inputs
  Up to 30 hours of digital audio recording
- time

Data

- Records up to 2 channels of MIL-STD 1553 data
- Additional single PCMCIA for maintenance logs and other data recording

Storage

- 4 to 32G Bytes in the main solid state drive
- Up to 2.2G Bytes in additional single PCMCIA Type I or II

Interfaces

- Supports Ethernet, RS-422, MIL-STD 1553, ARINC 429 and Fiber channel connectivity
- USB II interface for ground debriefing

Electrical

- Input 28 VDC, MIL-STD 704A
  Power Consumption below 30W

Dimensions

- 5.83" x 4.72" x 6.34" , 6.6 lbs

Env. Conditions

- Environment: Per MIL-STD 810E (-40˚C to +71˚C)
- EMI: Per MIL-STD 461D

Elbit SYSTEMS Ltd
Advanced Technology Center, P.O.Box 539, Haifa 31053, Israel
Tel: 972-4-8315315, Fax: 972-4-8550002 Web Site: http://www.elbit.co.il

EPO3-MKT-022 ESL